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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/563,444	05/15/2006	Jian Chen	016998-004200US	6307	
20350	7590 01/24/2008 AND TOWNSEND AN		EXAM	EXAMINER	
TWO EMBAR	CADERO CENTER	0 010 11, 222	THOMPSON, JI	THOMPSON, JEWEL VERGIE	
	EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834	•	ART UNIT	PAPER NUMBER	
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	•	•			
			MAIL DATE	DELIVERY MODE	
			01/24/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/563,444	CHEN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jewel V. Thompson	2855	
The MAILING DATE of this community Period for Reply	cation appears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE M. - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm. - If NO period for reply is specified above, the maximum states are reply within the set or extended period for reply. Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS COMMUNION of 37 CFR 1.136(a). In no event, however, may a sunication. Itutory period will apply and will expire SIX (6) MON will, by statute, cause the application to become Ali	CATION. reply be timely filed ITHS from the mailing date of this communications BANDONED (35 U.S.C. § 133).	
Status			1
1) Responsive to communication(s) file	d on 19 December 2007		
	2b)⊠ This action is non-final.		
3) Since this application is in condition	•	ers, prosecution as to the meri	its is.
closed in accordance with the practic	•		
Disposition of Claims			
4)⊠ Claim(s) <u>1-13</u> is/are pending in the a	pplication.		
4a) Of the above claim(s) is/ai			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-13</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restric	tion and/or election requirement.		
Application Papers			
9) The specification is objected to by the	e Examiner.		
10)⊠ The drawing(s) filed on <u>03 January 2</u>		bjected to by the Examiner.	
Applicant may not request that any object			
Replacement drawing sheet(s) including	the correction is required if the drawing	(s) is objected to. See 37 CFR 1.1	i21(d).
11)☐ The oath or declaration is objected to	by the Examiner. Note the attached	d Office Action or form PTO-15	52.
Priority under 35 U.S.C. § 119			•
12) Acknowledgment is made of a claim a) All b) Some * c) None of:	for foreign priority under 35 U.S.C. {	3 119(a)-(d) or (f).	
,	documents have been received.		
	documents have been received in A	spolication No.	
3. Copies of the certified copies			e
	nal Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office actio		received ,) .	
		Jewel Kshory JEWEL THOMPSON PRIMARY EXAMINER	psol
Attachment(s)		1/ 22/	08
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (P	·	Summary (PTO-413) / / / / / / / / / / / / / / / / / / /	-
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of I	nformal Patent Application	
Paper No(s)/Mail Date <u>1/3/06</u> .	6) [Other:	·	

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DETAILED ACTION

Information Disclosure Statement

Acknowledgement is made of the Information Disclosure Statement filed January 1. 3, 2006, which has been made record of and placed in the file.

Drawings

2. The drawings are objected to because Figures 1 and 2 are referenced to the same reference number, 100. Each figure should reference "100" separately. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.



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3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "vehicle type" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over McDonald et al (2003/0005782) in view of Volger (2006/0048580).

Regarding claim 1, McDonald et al teaches a pressure sensor (page 2, par. 2, lines 2-5) comprising an integrated circuit (page 2, par. 30, lines 5-8) encapsulated within a package (110), the integrated circuit including a pressure sensing element, an opening (125) being provided in the package allowing the pressure sensor to be exposed to the atmosphere (fig. 1). McDonald fails to teach a filter extends across the opening. However, Vogler teaches a semiconductor membrane (25) which is placed across the chip. It would have been obvious to one of ordinary skill in the art at the time that the invention was made to have used the membrane of Vogler and placed across the integrated circuit of McDonald et al for the purpose of keeping debris and contamination out of the circuitry area.

Regarding claim 2, McDonald et al teaches the integrated circuit incorporates other means (101) for connecting or transmitting the output of the pressure sensing element to external circuitry.

Regarding claim 3, Volger teaches the filter (25) is fixed to the surface of the package such that it extends over and covers the opening.

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Regarding claim 4, McDonald et al teaches the filter is a membrane (25) or film.

Regarding claim 5, McDonald et al teaches the filter is an organic film or membrane (25).

Regarding claim 6, McDonald et al teaches the sensor is adapted to be fitted to or embedded in a vehicle tyre (page 2, Para. [0023], lines 2-5).

Regarding claim 7, McDonald et al teaches the integrated circuit is mounted on a lead frame (11).

Regarding claim 8, McDonald et al teaches the integrated circuit and the lead frame are completely encapsulated within the package (fig. 1).

Regarding claim 9, McDonald et al teaches the package is a conventional semiconductor package incorporating an opening (125).

Regarding claim 10, McDonald et al teaches a pressure sensor the package is plastic [0039].

Regarding claim 11, McDonald et al teaches (Previously the opening is wholly filled with gel [0002].

Regarding claim 12, McDonald et al teaches the opening is partially filled with a gel [0002].

Regarding claim 13, McDonald et al teaches the gel is a relatively soft gel of relatively low density [0002].

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

4,850,227 Luettgen et al teaches a pressure sensor

6,155,119 Normann et al teaches an electric circuit board and an electric pressure transducer.

6,609,427 Westfield et al teaches a pressure transmitter with a sealed housing

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jewel V. Thompson whose telephone number is 571-272-2189. The examiner can normally be reached on 7-4:30, telework on Wednesday.

6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jvt January 21, 2008